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COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

SIXTH FLOOR,
PRUDENTIAL BUILDING,
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CEREALS

SOUTH AUSTRALIA — SEASON 1966-67

SCOPE This Bulletin shows details of the South Australian cereal and hay harvests for the year ended 31 March 1967 as obtained from the annual collection of Agricultural and Pastoral Statistics.

SEASONAL CONDITIONS April 1966 was unusually dry and as a result seeding was delayed until after general rains early in May. With average or above average rainfall in most districts during the next two months, nearly all seeding was completed by the end of July.

Healthy growth during August, September and October held prospects for an above average harvest in all areas except the Murray Mallee where conditions had been unfavourable. Conditions in November provided a good finish to the season and harvesting commenced in all but the very late districts. However, rain and cool weather in December delayed harvesting, which extended into February on Lower Eyre Peninsula and Kangaroo Island.

Rainfall over cereal growing areas during the growing period April to November 1966 was 10.99 inches, compared with the average for these areas of 12.77 inches.

SUMMARY OF AREAS AND YIELDS Reports at the beginning of the season indicated that farmers intended to sow approximately 3,050,000 acres of wheat, 1,245,000 acres of barley, and 1,118,000 acres of oats. The areas actually sown were 3,017,000 acres to wheat - an increase of 219,000 acres on the previous year, 1,182,000 acres to barley - an increase of 32,000 acres on the previous year, and 958,000 acres to oats - a decrease of 13,000 acres.

The wheat crop of 53.8 million bushels harvested from 3.0 million acres was 13.8 million bushels more than the 40.0 million bushels harvested from approximately 7 per cent less acreage in the 1965-66 season. The barley yield of 23.7 million bushels was 5.2 million bushels more than that for the previous year, while the yield of 10.3 million bushels of oats was 4.7 million bushels more than that harvested in the 1965-66 season.

The estimate of the combined yields of wheat, barley, and oats, for 1966-67 contained in my bulletin issued in January of this year was 87.4 million bushels. Actual yield for these three cereals was 87.8 million bushels - 23.7 million bushels more than in 1965-66.

TABLE 1 - CEREAL HARVEST, SOUTH AUSTRALIA, 1966-67

Crop	Area		Production	Yield per Acre
	Total (a)	For Grain (b)		
	'000 Acres		'000 Bushels	Bushels
Wheat	3,016.6	2,960.3	53,815.5	18.18
Barley	1,181.9	1,107.0	23,697.6	21.41
Oats	957.7	508.8	10,276.0	20.19
Rye	66.7	56.6	243.9	4.31
Field peas	30.3	28.7	305.9	10.67
	Area Cut		'000 Tons	Tons
Hay	481.7		729.3	1.51

(a) Includes area sown for hay and forage.
(b) Includes crops which failed.

TABLE 2 - CEREALS FOR GRAIN: AREA AND PRODUCTION, COUNTIES AND DIVISIONS, SOUTH AUSTRALIA, 1966-67

DIVISION and County	Wheat			Barley			Oats			Rainfall (a)
	Area	Production	Yield per Acre	Area	Production	Yield per Acre	Area	Production	Yield per Acre	
	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Inches
CENTRAL										
Adelaide	7,156	162,968	22.77	14,698	523,049	35.59	2,997	77,745	25.94	16.72
Carnarvon	2,360	49,491	20.97	3,962	101,384	25.59	14,513	499,512	34.42	14.22
Eyre	41,876	503,339	12.02	5,694	91,265	16.03	9,374	168,648	17.99	9.44
Fergusson	123,495	2,750,936	22.28	220,801	6,663,647	30.18	8,537	190,038	22.26	12.81
Gawler	110,454	2,062,710	18.67	52,817	1,138,988	21.56	12,701	226,593	17.84	10.91
Hindmarsh	6,719	155,490	23.14	11,211	332,413	29.65	8,362	263,346	31.49	13.58
Light	63,295	1,551,798	24.52	21,476	618,593	28.80	19,763	537,906	27.22	12.23
Sturt	61,493	862,512	14.03	32,466	542,579	16.71	11,624	193,209	16.62	9.69
LOWER NORTH										
Burra (incl. Kimberley)	26,750	516,973	19.33	1,104	17,130	15.52	7,217	134,481	18.63	10.51
Daly	246,752	5,797,158	23.49	107,562	2,847,260	26.47	21,422	490,071	22.88	9.67
Stanley	187,274	3,963,993	21.17	35,661	673,156	18.88	33,075	768,918	23.25	11.81
Victoria	153,249	3,254,822	21.24	32,983	707,140	21.44	20,384	411,009	20.16	9.60
UPPER NORTH										
Dalhousie	64,189	1,268,303	19.76	4,035	70,350	17.43	8,134	128,493	15.80	7.83
Frome	106,004	1,983,144	18.71	6,137	104,904	17.09	8,909	126,303	14.18	9.49
Newcastle	8,905	67,786	7.61	108	669	6.20	876	4,020	4.59	(b)
Other Counties	1,535	10,579	6.89	-	-	-	765	13,875	18.14	(b)
SOUTH EASTERN										
Buckingham	44,970	1,395,235	31.03	6,973	209,602	30.06	41,422	1,442,355	34.82	15.15
Cardwell	10,552	163,324	15.48	10,162	209,509	20.62	5,688	105,441	18.54	14.60
Grey	463	20,076	43.36	2,963	113,144	38.19	2,394	96,300	40.23	22.05
MacDonnell	5,355	182,166	34.02	2,007	54,078	26.94	10,917	382,833	35.07	14.52
Robe	2,633	68,735	26.11	1,949	50,004	25.66	8,940	369,438	41.32	17.47

TABLE 2 - CEREALS FOR GRAIN : AREA AND PRODUCTION, COUNTIES AND DIVISIONS, SOUTH AUSTRALIA, 1966-67 (continued)

DIVISION and County	Wheat			Barley			Oats			Rainfall
	Area	Production	Yield per Acre	Area	Production	Yield per Acre	Area	Production	Yield per Acre	(a)
	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Inches
WESTERN										
Bosanquet	5,673	117,523	20.72	440	8,596	19.54	1,060	12,300	11.60	(b)
Buxton (incl. York)	139,844	2,475,837	17.70	6,585	94,414	14.34	21,438	231,834	10.81	9.49
Dufferin	66,531	1,284,248	19.30	2,625	56,378	21.48	19,115	321,417	16.81	10.31
Flinders	113,930	2,398,098	21.05	48,988	1,333,110	27.21	19,466	452,454	23.24	15.39
Hopetoun	7,647	130,471	17.06	295	5,265	17.85	1,569	32,715	20.85	(b)
Jervois	375,969	6,526,762	17.36	48,292	1,061,094	21.97	35,710	552,579	15.47	11.07
Kintore	29,160	428,062	14.68	1,135	19,600	17.27	5,921	82,623	13.95	12.19
Le Hunte	158,608	3,636,168	22.93	14,231	301,919	21.22	29,825	549,513	18.42	11.72
Musgrave (c)	88,703	1,771,587	19.97	41,520	1,167,911	28.13	10,460	189,603	18.13	13.55
Robinson	149,450	3,243,723	21.70	26,557	680,229	25.61	27,189	465,414	17.12	13.32
Way	110,526	1,941,207	17.56	3,396	56,718	16.70	23,134	402,876	17.41	11.27
MURRAY MALLEE										
Albert	103,655	345,222	3.33	29,144	145,884	5.01	10,251	16,953	1.65	4.98
Alfred	128,110	455,301	3.55	34,034	91,274	2.68	7,840	12,300	1.57	5.16
Buccleuch	71,432	765,208	10.71	161,668	2,210,060	13.67	19,083	161,511	8.46	9.96
Chandos	107,160	1,275,429	11.90	70,664	822,394	11.64	6,408	51,459	8.03	8.09
Hamley (incl. Young)	6,965	7,731	1.11	983	2,394	2.44	1,443	135	0.09	(b)
Russell	21,433	221,385	10.33	41,632	571,490	13.73	10,919	109,749	10.05	10.91
DIVISIONS										
Central	416,848	8,099,244	19.43	363,125	10,011,918	27.57	87,871	2,156,997	24.55	12.22
Lower North	614,025	13,532,946	22.04	177,310	4,244,686	23.94	82,098	1,804,479	21.98	10.32
Upper North	180,633	3,329,812	18.43	10,280	175,923	17.11	18,684	272,691	14.59	8.86
South Eastern	63,973	1,829,536	28.60	24,054	636,337	26.45	69,361	2,396,367	34.55	16.51
Western (c)	1,246,041	23,953,686	19.22	194,064	4,785,234	24.66	194,887	3,293,328	16.90	11.96
Murray Mallee	438,755	3,070,276	7.00	338,125	3,843,496	11.37	55,944	352,107	6.29	7.71
Outside of Counties	Included in County Musgrave - Western Division									
TOTAL STATE	2,960,275	53,815,500	18.18	1,106,958	23,697,594	21.41	508,845	10,275,969	20.19	10.99

(a) Rainfall over agricultural areas during the crop growing period April to November 1966. The figure for each county is obtained by averaging recorded rainfall at selected stations in crop growing areas; the figure for each division is an average of the results so obtained for each county in the division weighted by area under crop. All figures are preliminary and subject to revision.
(b) Not regarded as crop growing area.
(c) Includes Outside of Counties.

TABLE 3 - RYE, FIELD PEAS AND HAY: AREA AND PRODUCTION
STATISTICAL DIVISIONS, SOUTH AUSTRALIA, 1966-67

Division	Rye		Field Peas		Hay	
	Area	Production	Area	Production	Area	Production
	Acres	Bushels	Acres	Bushels	Acres	Tons
Central	1,133	8,790	10,124	118,121	199,313	311,537
Lower North	612	5,796	17,560	178,892	63,240	77,557
Upper North					10,824	11,233
South Eastern	670	4,686	846	6,525	130,023	232,661
Western (a)	1,469	6,696	111	1,595	36,403	46,482
Murray Mallee	52,733	217,929	38	772	41,939	49,788
Total State	56,617	243,897	28,679	305,905	481,742	729,258

(a) Includes "Outside of Counties".

AREAS SOWN FOR ALL PURPOSES

The following table shows acreages sown for all purposes (grain, hay, and forage) for the seasons 1963-64 to 1966-67 together with farmers' estimates of areas which they intended sowing for the current 1967-68 season. The greatest area ever sown to wheat in South Australia was 4,507,213 acres in 1930-31. The area of barley increased steadily until 1958-59 when it nearly equalled that sown to wheat but since then areas sown to barley have declined relative to areas sown to wheat.

TABLE 4 - AREAS SOWN FOR ALL PURPOSES, SOUTH AUSTRALIA

Crop	1963-64	1964-65	1965-66	1966-67	1967-68(a)
			Acres		
Wheat	2,848,690	2,772,360	2,797,866	3,016,577	3,323,950
Barley	1,164,561	1,134,794	1,150,222	1,181,945	1,311,829
Oats	956,336	950,835	970,936	957,699	1,143,956
Rye	37,291	51,273	43,639	66,685	(b)
Field peas	32,785	36,468	32,916	30,341	29,119

(a) Acreages advised in the autumn as those intended to be sown in the 1967-68 season.
(b) Not available.

WHEAT

The wheat harvest for 1966-67 was 13,839,366 bushels more than the harvest of the previous year. During the 28 years to 1957-58 areas sown to wheat for grain declined generally from 4 million acres to 1.3 million but since 1957-58 this trend has been reversed. The area of wheat sown for grain in 1966-67 totalled 3.0 million acres. The best average yield was 23.56 bushels per acre in 1960-61.

Areas, yields, and yields per acre relating to South Australian wheat production for the years 1962-63 to 1966-67 are shown below.

TABLE 5 - WHEAT: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Unit	1962-63	1963-64	1964-65	1965-66	1966-67
Total area	acre	2,644,910	2,848,690	2,772,360	2,797,866	3,016,577
Grain area	acre	2,595,145	2,802,258	2,726,826	2,744,863	2,960,275
Production	bushel	38,338,860	53,971,269	52,817,049	39,976,134	53,815,500
Yield/acre	bushel	14.77	19.26	19.37	14.56	18.18

Varieties of wheat sown for all purposes for the years 1964-65 to 1966-67 are shown in the following table.

TABLE 6 - WHEAT: VARIETIES SOWN, SOUTH AUSTRALIA

Variety	Area			Proportion of Total Area		
	1964-65	1965-66	1966-67	1964-65	1965-66	1966-67
	Acres			Per Cent		
Beacon	2,558	2,433	1,444	0.09	0.09	0.05
Bencubbin (a)	21,277	15,340	15,368	0.77	0.55	0.51
Claymore	60,790	47,601	32,051	2.19	1.70	1.06
Dirk (a)	245,794	208,097	175,597	8.86	7.44	5.82
Falcon	1,754	3,803	4,841	0.06	0.14	0.16
Gabo	447,072	381,202	298,865	16.13	13.62	9.91
Gamenya	9,308	60,171	187,882	0.33	2.15	6.23
Heron	322,276	489,066	707,050	11.63	17.48	23.44
Insignia (a)	1,104,370	1,045,017	1,037,029	39.84	37.35	34.38
Javelin (a)	15,502	13,569	4,128	0.56	0.48	0.13
Mengavi	4,310	5,944	5,690	0.16	0.21	0.19
Olympic	11,109	13,357	19,935	0.40	0.48	0.66
Pinnacle	63,912	59,502	57,527	2.31	2.13	1.91
Quadrat	6,213	2,805	2,727	0.22	0.10	0.09
Rapier (a)	14,734	11,522	4,943	0.53	0.41	0.16
Raven	-	94,378	174,623	-	3.37	5.79
Sabre	262,225	221,826	170,767	9.46	7.93	5.66
Scimitar (a)	15,342	10,420	2,358	0.55	0.37	0.08
Sherpa	2,965	2,864	2,036	0.11	0.10	0.07
Stockade	1,703	3,047	6,442	0.06	0.11	0.21
Wongoondy	50,430	40,223	38,252	1.82	1.44	1.27
Yande	4,003	4,534	2,398	0.14	0.16	0.08
Other (b)	104,713	61,145	64,624	3.78	2.19	2.14
Total area	2,772,360	2,797,866	3,016,577	100.00	100.00	100.00

(a) Includes back cross.
(b) Includes unspecified varieties.

BARLEY

The barley yield for 1966-67 of 23,697,594 bushels averaged 21.41 bushels per acre. The highest production recorded was 42,233,118 bushels in 1960-61, and the best average yield was 28.27 bushels per acre in 1958-59.

The following table shows details relating to South Australian barley production for the years 1962-63 to 1966-67.

TABLE 7 - BARLEY: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Unit	1962-63	1963-64	1964-65	1965-66	1966-67
Total area	acre	1,088,272	1,164,561	1,134,794	1,150,222	1,181,945
Grain area	acre	1,052,886	1,123,104	1,094,740	1,098,138	1,106,958
Production	bushel	18,004,881	24,336,555	26,931,735	18,514,200	23,697,594
Yield/acre	bushel	17.10	21.67	24.60	16.86	21.41

The area of barley sown for grain in 1966-67 totalled 1,106,958 acres, 1,056,394 acres of 2 row yielding 22,677,844 bushels and 50,564 acres of 6 row yielding 1,019,750 bushels.

The varieties of barley sown for all purposes for the years 1964-65 to 1966-67 are shown below.

TABLE 8 - BARLEY: VARIETIES, SOUTH AUSTRALIA

Variety	Area			Proportion of Total Area		
	1964-65	1965-66	1966-67	1964-65	1965-66	1966-67
	Acres			Per Cent		
2 Row - Maltworthy	132,619	104,950	93,270	11.68	9.12	7.89
Noyep	203,551	221,738	270,740	17.94	19.28	22.91
Prior	693,890	727,738	709,883	61.15	63.27	60.06
Other 2 Row	51,091	39,829	42,146	4.50	3.46	3.56
6 Row - All kinds	53,643	55,967	65,906	4.73	4.87	5.58
Total area	1,134,794	1,150,222	1,181,945	100.00	100.00	100.00

OATS

The oats yield for 1966-67 was 10,275,969 bushels from 508,845 acres, a yield of 20.19 bushels per acre. Record production in South Australia was 11,992,155 bushels in 1958-59 when the record average yield of 24.93 bushels per acre was obtained.

Details of oats production in South Australia for the years 1962-63 to 1966-67 are shown below.

TABLE 9 - OATS: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Unit	1962-63	1963-64	1964-65	1965-66	1966-67
Total area	acre	839,249	956,336	950,835	970,936	957,699
Grain area	acre	415,613	500,650	443,794	454,562	508,845
Production	bushel	5,770,242	9,149,149	8,976,907	5,621,811	10,275,969
Yield/acre	bushel	13.88	18.27	20.23	12.37	20.19

Varieties of oats sown for all purposes for the seasons 1964-65 to 1966-67 are as follows:

TABLE 10 - OATS: VARIETIES, SOUTH AUSTRALIA

Variety	Area			Proportion of Total Area		
	1964-65	1965-66	1966-67	1964-65	1965-66	1966-67
	Acres			Per Cent		
Algerian	8,759	7,073	6,263	0.92	0.73	0.65
Avon	373,734	425,841	477,303	39.30	43.86	49.84
Ballidu	22,521	20,482	20,298	2.37	2.11	2.12
Fulghum	24,321	22,888	17,324	2.56	2.36	1.81
Kent	190,480	193,967	175,327	20.03	19.98	18.31
Kherson (incl. Early)	199,352	190,651	167,826	20.97	19.63	17.52
Kurrajong	11,631	9,286	7,413	1.22	0.95	0.77
New Zealand Cape	23,862	18,857	19,096	2.51	1.94	1.99
Orient	46,607	34,638	31,077	4.90	3.57	3.25
Other (incl. unspec.)	49,568	47,253	35,772	5.22	4.87	3.74
Total area	950,835	970,936	957,699	100.00	100.00	100.00

RYE

During 1966-67 the area of rye sown for all purposes was 66,685 acres. The 56,617 acres sown for grain yielded 243,897 bushels at an average yield per acre of 4.31 bushels.

FIELD PEAS

From 28,679 acres planted for grain in the 1966-67 season 305,905 bushels were reaped, an average of 10.67 bushels per acre. In the 1965-66 season 241,878 bushels were obtained from 29,911 acres. In the autumn, farmers indicated that they intended sowing 29,119 acres in 1967-68 for grain or green forage.

Of the 30,341 acres sown in 1966-67 for all purposes 5,087 acres were sown to Collegian, 13,330 acres to Dun, 10,803 acres to White Brunswick, and 1,121 acres to other varieties.

HAY

The yield of hay in 1966-67 was 729,258 tons from 481,742 acres being the highest yield since 748,313 tons were cut in 1941-42.

A summary of areas and production of hay for the years 1962-63 to 1966-67 is shown below.

TABLE 11 - HAY: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	1962-63	1963-64	1964-65	1965-66	1966-67
			Acres		
Area -					
Wheaten	44,278	40,772	39,777	46,088	47,988
Oaten	116,351	140,666	110,128	111,818	135,051
Other	126,814	176,154	164,413	140,708	298,703
Total	287,443	357,592	314,318	298,614	481,742
			Tons		
Production -					
Wheaten	54,769	56,753	59,392	54,038	65,022
Oaten	147,399	185,435	157,325	117,567	182,605
Other	204,195	246,030	270,241	196,108	481,631
Total	406,363	488,218	486,958	367,713	729,258
Yield per acre-					
Wheaten	1.24	1.39	1.49	1.17	1.35
Oaten	1.27	1.32	1.43	1.05	1.35
Other	1.61	1.40	1.64	1.39	1.61
Total	1.41	1.37	1.55	1.23	1.51

CEREALS USED ON FARMS

The following table shows details of cereals and hay used on farms for seed and feed purposes during the years 1965-66 and 1966-67.

TABLE 12 - CEREALS USED ON FARMS, SOUTH AUSTRALIA

Particulars	Unit	1965-66		1966-67	
		Seed	Feed	Seed	Feed
Wheat	bushel	3,026,283	848,766	3,192,270	700,770
Barley	bushel	1,317,274	2,511,284	1,324,846	2,625,157
Oats	bushel	1,073,623	3,271,904	1,073,406	3,599,179
Hay	ton	..	315,116	..	445,558

Farmers have reported that 3,156,225 bushels of wheat, 1,346,428 bushels of barley and 1,130,634 bushels of oats were retained on farms for 1967 seeding. 582,522 bushels of wheat, 2,669,218 bushels of barley and 4,338,946 bushels of oats were being kept for feed purposes. Stocks of hay held on farms in March 1967 amounted to 544,676 tons.

P.W. HODGKINSON

ACTING DEPUTY COMMONWEALTH STATISTICIAN

Commonwealth Bureau of Census & Statistics
ADELAIDE S.A.
13 October 1967